

Provide Veterinary Medicine API Ampicillin Trihydrate With Best Price

Chemical & Physical Properties:

CAS NO: 7177-48-2

Molecular Formular: C₁₆H₂₅N₃O₇S

EINECS: 200-709-7

HS Code: 29411020

Melting point : 208 °C (dec.)(lit.)

Storage temp.: 2-8°C

Items	Specification
Description	white to off-white
Melting Point	208°C
Residue solvent - Ethanol	≤0.04%
Loss on drying	0.04%
Ignition residue	0.01%
Assay	100%

Function:

Ampicillin is in the penicillin group of beta-lactam antibiotics and is part of the aminopenicillin family. It is roughly equivalent to amoxicillin in terms of activity. Ampicillin is able to penetrate Gram-positive and some Gram-negative bacteria. It differs from penicillin G, or benzylpenicillin, only by the presence of an amino group. That amino group helps the drug penetrate the outer membrane of Gram-negative bacteria.

Ampicillin acts as an irreversible inhibitor of the enzyme transpeptidase, which is needed by bacteria to make their cell walls. It inhibits the third and final stage of bacterial cell wall synthesis in binary fission, which ultimately leads to cell lysis; therefore ampicillin is usually bacteriolytic.

Application:

It is active against many Gram-positive and Gram-negative bacteria.

It is used for the treatment of infections known to be or highly likely to be caused by these bacteria. These include common respiratory infections including sinusitis, bronchitis, and pharyngitis, as well as otitis media. In combination with vancomycin (which provides coverage of ampicillin-resistant pneumococci), it is effective for the treatment of bacterial meningitis. It is also used for gastrointestinal infections caused by consuming contaminated water or food, such as Salmonella, Shigella, and Listeriosi.

Package: 25 kg/drum